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## UTILITY

espond to	a collection of in	formation unless it o	displays a valid OMB control number.
Attorne	y Docket No.	M419.12-004	13
	ventor or Applica		Benjamin Y.H. Liu et al.
Title	HIGH-PERFO MULTI-LIQUID	RMANCE VAPOR D-PRECURSOR V	IZER FOR LIQUID-PRECURSOR AND APPORIZATION IN SEMICONDUCTOR

PATENT APPLICATION TRANSMITTAL								7001101101		mm 1.n. Li			
				Title	HIGH-PERFORMANCE VAPORIZER FOR LIQUID-PRECURSOR AN MULTI-LIQUID-PRECURSOR VAPORIZATION IN SEMICONDUCTO THIN FILM DEPOSITION						R AND CTOR		
(Only for new non-provisional applications under 37 C.F.R. § 1.53(B))						Express Mail Label No. EV388908754US							
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.							dress		Mail Stop Pa Commission P.O. Box 145 Alexandria,	tent Appler for Pa	tents	오_	
1.	X		ansmittal Form e.g., P7 n original and a duplicate fo			7.			OM or CD-R in			J.S <sup>?</sup> P 901	04
2.		Applican	nt Claims small entity s	tatus			Nucle	ntide an	d/or Amino Aci	d Seguen	ce Submissio	9	30
3.	X	Specifica	•	otal Sheets 34	]	8.			e, all necessar		oc oubilissio		
			arrangement set forth below otive title of the Invention				a.	Пс	omputer Read	abla Can		17/	
		<ul> <li>Descriptive title of the Invention)</li> <li>Cross References to Related Applications</li> <li>Statement Regarding Fed sponsored R &amp; D</li> <li>Reference to Microfiche Appendix</li> <li>Background of the Invention</li> <li>Brief Summary of the Invention</li> </ul>						Specifi i.	ication Sequen  CD-ROM o  Paper  tatement verif	r CD-R (2	on: Copies); or	opies	
			escription of the Drawi	ngs (II IIIeu)	Г	ACCOMPANYING APPLICATION PARTS							
		- Claim(s	s)		ŀ	9.	X		ignment Paper	<del></del>			
		- Abstrac	ct of the Disclosure			10		37 (	C.F.R. § 3.73(b en there is an	) Stateme	ent 🗵 F	Power of Attorney	
						11.			lish Translation			le)	
4.	X	Drawing	(s) (35 U.S.C. § 113)	[Total Sheets 8	]	12.			rmation Disclo			Copies of Citations	IDS
5.	Oath	or Declai	ration	[Total Sheets 3	]	13.		Prel	liminary Amend	dment			
	a.	X Ne	ewly executed (original	or copy)		14.	X		urn Receipt Po ould be specific	•	•		•
	b.		opy from a prior applicational with Bo		3(d))	15.			tified Copy of F preign priority is				
		i.	inventor(s) nan	ent attached deleting ned in the prior applica		16.		(b)(2	ipublication Re 2)(B)(i). Applica s equivalent				<b>;</b>
6	X	Applicat	see 37 C.F.R. tion Data Sheet. See 3	§§1.63(d)(2) and 1.33( 7 CFR 1.76	b).	17.		Oth	er:				
18.			G APPLICATION, ch		d supply	the rec	uisite in	formatio	n below and in a	a nælimina	arv amendmen	t orin an	
	Application  Prior  FOR Counder I	tion Data S Cont application ONTINUA Cox 4b, is	Sheet under 37 CFR 1.76: tinuation	Continuation Examiner PPS only: The entire disclosure of the according to the disclosure of the disclosure of the according to the disclosure of the disclosure	in part ( disclosu ompanyi ortion ha	(CIP) ure of thing con as been	of p Grou he prior itinuation	orior app p/Art Un applicat n or div	lication No: it: tion, from whice	/ ch an oath tion and i	or declaratio	n is supp	olied
17. CORRESPONDENCE													
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Name (Print/type)	Nickolas E. Westman	Registration No. (Attorney/Agent)	20,147
Signature	Malleblushin	Date	1/30/04

<u> </u>								Comple	te if Knov	vn _				
FEE TRANSMITTAL							Applic	ation N	<b>D</b> .					
							Filing Date							
						_ 4	First Named Inventor				enjamin Y.H. Liu et al.			
							Title				HIGH-PERFORMANCE VAPORIZER FOR LIQUID- PRECURSOR AND MULTI-LIQUID-PRECURSOR VAPORIZATION IN SEMICONDUCTOR THIN FILM DEPOSITION			
							Group	Art Un	it		. comon			
L							Examiner Name Atty. Docket Number				M419.12-0043			
Total A	mount o	f Payme	ent \$7	<b>'54</b>										
	ME	гнор о	F PAY	MENT (C	neck One)	-		FEE CALCULATION (Continued)						
1. X The Director is hereby authorized to charge any additional fee required under 37 C.F.R. § 1.16 and 1.17, including any petition fee, and credit any over payments to Deposit Account No. 23-1123.  Westman, Champlin & Kelly, P.A.  2. X PTO Form-2038 Enclosed						ion fee,		Entity Fee (\$)		Entity Fee (\$)	Fee Description	Fee Paid		
							1051	130	2051	65	Surcharge - Late filing fee or oath			
		FE	E CALC	ULATION	N		1052	50	2052	25	Surcharge - Late provisional Filing Fee or cover sheet			
1. BAS	IC FILI	NG FEE					1053	130	1053	130	Non-English specification			
Large	Entity	Smal	I Entity				1812	2,520	1812	2,520	For Filing a Request for Reexamination. (ex parte)			
Fee	Fee	Fee	Fee				1251	110	2251	55	Extension for reply within first month			
Code	(\$)	<u>Code</u>	<u>(\$)</u>	Fee De	escription		1252	420	2252	210	Extension for reply within second month			
1001	770	2001	385	∑ Uti	lity Filing Fee		1253	950	2253	475	Extension for reply within third month			
1002	340	2002	170	Des	ign Filing Fee		1254	1,480	2254	740	Extension for reply within fourth month			
1004	770	2004	385	Reis	ssue Filing Fee	€	1255	2,010	2255	1,005	Extension for reply within fifth month			
1005	160	2005	80	Prov	v. Filing Fee		1402	330	2402	165	Filing a brief in support of an appeal			
					Subtotal	(1) \$ 385	1403	` 290	2403	145	Request for oral hearing			
2. EXT	RA CLA	IM FEE	S			1	1814	110	2814	55	Terminal Disclaimer Fee			
	Numb Claim		ior**	Extra	Fee from Below	Fee Paid	1452	110	2452	55	Petition to Revive - unavoidable			
Fotal	27	20	)	7	9	0	1453	1,330	2453	665	Petition to Revive - unintentional			
Indep.	5	3		2	43	0	1501	1,330	2501	665	Utility/Reissue issue fee (inc. advance copies)			
Multiple Dependent Claims							1502	480	2502	240	Design issue fee (inc. advance copies)			
** Insert 3 and 20, or number previously paid if greater; Reissue see below						pelow	1460	130	1460	130	Petitions to the Commissioner			
Large E Fee Code	Entity Fee _(\$)	Small E Fee Code	Entity Fee _(\$)_	Descriptio	n		1807	50	1807	50	Petitions related to provisional applications			
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3					1806	180	1806	180	Submission of Information Disclosure Statement					
1203 1204	290 86	2203 2204	145 43	Multiple D	ependent Clai	ims	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40		
Original Patent  1205 18 2205 9 Reissue claims in excess of 20 and over original patent						ss of 20	Other F	ee (spec	ify)		property (unies number of properties)			
		1			Subtotal	(2) \$ 329					Subtota	ıl (3) \$ 4		

Signature (Nickolas B. Westman)

Date // 30/04/

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